AMENDMENT AND RESPONSE UNDER 37 CFR § 1.116 - EXPEDITED PROCEDURE

Serial Number: 10/714,567 Filing Date: November 14, 2003

Title: ANTIBODY MEDIATED OZONE GENERATION

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<u>:</u>

## IN THE CLAIMS

Please amend the claims as follows.

DO NOT ENTER (DV)

- 1. (Currently Amended) A method for <u>detecting assaying for</u> an <u>antibody immunological</u> response in a mammal comprising:
- (a) administering to the mammal a chemical probe for <u>an antibody-generated</u> reactive oxygen species;
  - (b) obtaining a sample from the mammal; and
- (c) analyzing the sample for an oxidized chemical probe to thereby detect whether there is an antibody the immunological response in the mammal; wherein the reactive oxygen species comprise oxygen with one or more unpaired electrons.
- 2. (Previously Presented) The method of claim 1, wherein the chemical probe is an alkene that can be oxidized during an immunological response in the mammal.
- 3. (Original) The method of claim 1, wherein the chemical probe is 3-vinyl-benzoic acid, 4-vinyl-benzoic acid, indigo carmine, stilbene, or cholesterol.
- 4. (Cancelled)
- 5. (Original) The method of claim 1, wherein the reactive oxygen species is a superoxide radical, hydroxyl radical, peroxyl radical or hydrogen peroxide.
- 6. (Previously Presented) The method of claim 1, wherein the reactive oxygen species is ozone.
- 7. (Original) The method of claim 1, wherein the sample is a bodily fluid.